



Attorney Docket No. KAK-001



ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing is the patent application of

Inventor(s): Hiroshi MINITANI, Shinnosuke HONJO and Tomomi HATANOU

For: LOTTERY SYSTEM UTILIZING ELECTRONIC MAIL

Enclosed are:

- ☒ Specification and Claim(s).
- ☒ Oath or Declaration (unexecuted).
- ☒ 6 sheet(s) of drawings (2 sets).
- ☐ An assignment of the invention to RAKUTEN INC.
- ☐ Copy of Japanese priority application(s).
- ☐ Associate Power of Attorney.
- ☒ Return receipt of postcard.

The fee has been calculated as shown below:

CLAIMS AS FILED				
FOR	NUMBER FILED	NUMBER EXTRA	RATE	BASIC FEE \$345/\$690
TOTAL CLAIMS	11-20	0	X \$9 \$18	\$
INDEP. CLAIMS	1-3	3	X \$39 \$78	\$
Fee for Multiple Dependent Claims \$130/\$260				
			TOTAL FILING FEE	\$345

Attorney Docket No. KAK-001

- ☐ Verified Statement Claiming Small Entity Status.
- ☒ Charge \$ 345.00 to Deposit Account No. 18-0013 to cover the filing fee. A duplicate copy of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge any fees under 37 C.F.R. 1.16 or 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 18-0013. A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \$\_\_\_\_ cover the filing fee is enclosed.
- ☐ Charge \$\_\_\_\_ Deposit Account No. 18-0013 to cover the recordal fee. A duplicate copy of this sheet is enclosed.
- ☒ Applicant's undersigned attorney/agent may be reached by telephone in our Washington D.C. Office at

(202) 955-3750.

All correspondence should be directed to our below listed address.

Date: September 1, 2000

*for* Emm Tamm 41,518  
Monica Millner  
Reg. No. 42,894

RADER, FISHMAN & GRAUER, P.L.L.C  
1233 20<sup>th</sup> Street, NW, Suite 501  
Washington, DC 20036  
Telephone: (202) 955-3750  
Facsimile: (202) 955-3751

## LOTTERY SYSTEM UTILIZING ELECTRONIC MAIL

### Background of the Invention

The present invention relates to a lottery system utilizing an electronic mail, more particularly to a lottery system in which the results of the lottery system is interactively identifiable.

Recently, varieties of services have been provided on the Internet. Fig. 1 shows one diagram of a configuration of the present invention using the Internet. A plurality of users 112 and 114 may access to a server 120 connected to the Internet 101 by, for example, a browser. Thus the users 112, 114 may utilize services provided by the server 120. One of the services available in the Internet is a lottery service wherein prizes are awarded to winners by a host server 122. Explanatory diagrams for this service are shown in Figs. 2A and 2B.

With reference to a conventional prize competition using the Internet, a certain period of time was needed until the result of lottery was known after application by the participants 116. A conventional lottery system using the Internet is explained in Fig. 2A. The prize competition of the lottery system is not limited to the one on the Internet. However, the prizes are generally awarded to a predetermined number of winners chosen among participants 116 who had applied for a lottery for a period of time. As shown in Fig. 2A, at t1, a host 122 calls for participants 116 by announcing details of winning parties including number and contents of awards. Then participants 116 apply for the awards, as shown in the solid arrows, until t2 when the host 122 announces the closing of the entries. Subsequently, the host 122 makes a selection and announces the winners of the lottery, as shown in the broken line arrow. In this conventional method, the participants 116 could not know who won the prizes for a certain period of time. In the conventional method, many people

hesitated to participate in the prize competition because of the time consuming process.

Further under this conventional method, it was difficult for the host 122 or server to limit number of participants 116, particularly in the case of an Internet lottery. This problem is explained in reference to Fig. 2B. As shown in Fig. 2B, any Internet user may access to a lottery home page or web site 124 and may basically participate in the prize competition specified in the web site 124. Each of the participants 116 enters specific data requested into the database 126 which constitutes a main group. A host 122 of the prize competition could not manipulate or control the attributes of the main group database 126, because the database 126 was not well organized. Therefore the database of the main group thus constituted was not necessarily effective for the operation of the Internet lottery.

### **Summary of the Invention**

The object of the present invention is to provide a lottery system which is capable of solving the problems of the prize competition on the conventional Internet as discussed above.

First, it is an object of the invention to solve the problem that a certain period of time was needed until participants of a lottery could know the result of the lottery by making the lottery results available immediately. Thus, the participants can participate in the lottery more easily.

Second, it is another object of the present invention to solve the problem that the host could not limit the number of participating persons. This object is achieved by assigning an access key to a participant individually and making the system accessible only by a person holding the access key.

Another object of the present invention is to ensure that an electronic mail to which a unique access key is attached is sent

to a specified user, that the user is identified by way of the access key, and that the user is informed of a result of the lottery. Thus, the users can know the result of the lottery immediately after the entry, and the host can limit the number of participants in advance.

The result of the lottery can be obtained by performing a ballot at the time of the application of the user, and the result of the lottery can also be determined prior to the sending of the foregoing electronic mail. The limitation or identification of the participants can be performed by using a destination mail address of the electronic mail, in addition to the use of the access key. The access key can be used as an address of an electronic mail to which the user responds.

The result of the lottery can be notified to participants also by informing them of a URL to another page where the results are displayed in addition to an access keyword via the electronic mail. Further, the URL to the page informing the foregoing result can be notified together with the result of the lottery, whether the participant won or lost the prize competition. In addition, participants may know as to whether they won the prize by accessing the result page by entering the foregoing access keyword and a mailing address to which the foregoing access keyword is sent at the page informing the foregoing result.

These are systems in which an electronic mail is used for applications or entries. In addition to these systems, a system may be adopted in which by using the foregoing access key informed by the electronic mail as an access keyword either in a URL of a page for application or in a specified URL, a URL informing the result of the lottery can be accessed with an accessing of the foregoing user accesses the foregoing URL. Moreover, the destination mail address of the foregoing electronic mail, which

is entered in the foregoing URL, can also be used for the discrimination.

The foregoing lottery system, which collects and stores data concerning the user who applied, can be used for various kinds of systems.

A recording medium which stores a program capable of constituting a computer system by the foregoing lottery system is within the scope of the present invention.

### **Brief Description of the Drawings**

For a more complete understanding of the present invention and the advantages thereof, reference is now made to the following description taken in conjunction with the accompanying drawings, in which;

Fig. 1 is a view showing a constitution of a system on the Internet;

Fig. 2 is a view showing a system of a conventional lottery system;

Fig. 3 is a view showing a lottery system of the present invention;

Fig. 4 is a flowchart showing processing in a lottery system of a first embodiment of the present invention;

Fig. 5 is a flowchart showing processing in a lottery system of a second embodiment of the present invention; and

Fig. 6 is a flowchart showing processing in a lottery system of a third embodiment of the present invention.

### **Detailed Description of the Preferred Embodiments**

Embodiments of the present invention will be described with reference to the accompanying drawings in detail.

A summary of processing in the lottery system of the present invention will be explained using Figs. 3A and 3B. Fig. 3A

illustrates the way of announcing the result of the lottery in the lottery system of the present invention. As shown in Fig. 3A, at t1, a host 122 calls for participants 116 by announcing details of winning parties including number and contents of awards. Then each of participants 116 apply for the awards, as shown in the solid arrows, until t2 when the host 122 announces the closing of the applications or entries. Unlike the conventional lottery system shown in Fig. 2A, as soon as a participant 116 applies for a lottery, as shown in solid arrow, the participant 116 is informed of the result of the draw by an electronic mail and the like as shown in a broken line arrow. As described above, the interactive lottery system by which the participants 116 can know the result soon after the application for the lottery can be constructed.

Furthermore, as shown in Fig. 3B, in the lottery system of the present invention, an access key such as an ID for applying for the lottery is separately sent to each of customers and potential customers 118, who eventually become participants 116, by a host 122 of the lottery via electronic mail. Thus, participants 116 for the lottery can be limited to particular customers. When the prize competition is performed based on mail addresses of customers and potential customers, which are obtained by various kinds of ways, it will be possible to collect more accurate data in which a main group of participants can be specified. This would be less true in a conventional prize competition on the Internet. The issuing of individual keywords can increase a reply ratio from objective persons, and doing so exhibits effects for advantageous data collection.

#### **Embodiment 1**

One example of the lottery system of the present invention will be described using a process flow of the embodiment 1 shown

in Fig. 4 in detail. Here, as an access key for discriminating participants 116, an ID used as a part of an electronic mail address is employed.

5 1. Sending out of an electronic mail with an ID (S202)

In the lottery system of the present invention, a host 122 of the prize competition uses servers A and B. The host 122 first sends out an electronic mail with an ID (access key) to participants 116 by an electronic mail (S202) at server A. A  
10 person to whom this electronic mail is sent is the participant 116 in the lottery. This ID, which can be constituted by standard alphanumeric characters, is uniquely allocated to corresponding address of the electronic mail of each participant 116. This ID is a reply electronic mail address (for example,  
15 XXX@kuji.rakuten.co.jp, where XXX is ID) for applying for the lottery. The participant 116 will be participating in the lottery at the time when the participant 116 sends out a reply mail to this address.

The electronic mails containing the reply ID can be sent out  
20 simultaneously before the application period, or voluntarily during the application period.

2. Receipt of Electronic Mail with ID (S204) and Reply for Application (S206)

25 The participant 116 receives the electronic mail with the ID from the host 122 of the prize, respectively (S204). After the participants 116 read the electronic mail sent to them, they reply the electronic mail to the ID (S206). Thus, the participant 116 who replied the electronic mail will become eligible to win the  
30 prize competition. In the reply mail, nothing is written to the text, and the words to the effect that they want to apply for the



prize competition may be written in the title or subject.  
However, it is not always necessary to fill in such words.

### 3. Discrimination of Participant 116 (S208) and Decision of 5 Winning of Prize (S210)

The host 122 receives the electronic mail sent back from the  
participant 116 by an account of the ID especially provided.  
Here, by setting this ID in to a large number of digits, false  
application for the lottery by a person other than the  
10 participants 116 is made very difficult to get admitted into the  
lottery. This is true even where a person uses such devices as  
random number generators or a random IDs. Thus, security of the  
system can be strengthened. If a person other than the  
participant 116 applies for the lottery by a random ID, a  
15 probability that this ID is the issued one becomes very low. When  
the electronic mail is received with an account of the ID, the  
participant corresponding to the ID is recognized as the  
participant 116. Moreover, based on the address expressing to  
whom the electronic mail is sent, which is described in a header  
20 portion of the electronic mail received, this address is confirmed  
to be a destination of the electronic mail for the prize  
competition. Thus, by using the ID and the electronic mail address  
of the participant 116, the discrimination of the participant may  
be performed. Because the ID used for the application for the  
25 prize competition is checked at the time of the first application  
by a participant 116, it is impossible to apply for the prize  
competition plural times with the same ID.

Next, based on the probability of winning the prize, which  
was previously set, the winner of the prize of the participant 116  
30 is instantaneously determined (S210). The determination of the  
winner of the prize is conducted in the following manner. Random  
numbers of predetermined figures are generated by a computer, and

the winner of the prize is determined by the generated random numbers. It is decided which number among the generated random numbers is the one for winning the prize, thus enabling the free setting of the probability of winning the prize. Accordingly, it is possible to change the probability of winning the prize depending on the kinds of the prizes and sweepstakes.

Moreover, it is also possible to set the winner of the prize to plural ranks such as prize A and prize B, in addition to the winning of the prize and the losing of the prize.

Data indicating the result of the lottery is sent to a system of a web site 124 simultaneously as it is generated.

#### 4. Sending of Electronic Mail for Confirmation (S218)

After it is decided whether the participant 116 wins the prize, the URL of the page for confirming the winning of the prize and the access keyword necessary for confirming the winning of the prize in the page of the URL are sent to the participant 116 by the electronic mail (electronic mail for confirming prizes won, S218). This access keyword is set individually for persons who win the prize and persons who lose the prize (S212, S216). However, the participant 116 cannot know the result of the lottery only by seeing the access keyword. In the case where there are a plurality of prizes for the winners of the lottery as described above, the access keyword is set so as to distinguish each prize.

#### 5. Receipt of the Electronic Mail for Confirmation (S220) and Access to Page for Confirmation of Result (S250)

The participant 116 receives an electronic mail for confirming the result of the lottery (S220) soon after sending out an electronic mail to an ID (S206). A URL of a lottery result confirmation home page or web site 240, which is available at server B, and an access keyword to this web site 240 is written in

the electronic mail (S218) sent by the host 112. When there are a plurality of prizes such as prize A and prize B, separate access keywords are prepared for the individual prizes. The lottery result data is made available at the server B by the host 112 as shown in broken line arrow.

The participant 116 accesses the URL of the lottery result confirmation web site 240 (S250), the address of which is written in the electronic mail received (S220). The participant 116 then enters the access keyword written in the electronic mail for confirming the result of the lottery and the electronic mail address of the participant 116 (S252). Thus, the participant 116 can know the result of the lottery instantly.

Here, the reason why the participant 116 enters the electronic mail address besides the access keyword is to confirm by the electronic mail address that the person who accessed the URL of the lottery result confirmation page is the participant 116 himself or herself. By entering the electronic mail address, it can be prevented that a person who knows the access keyword in some way accesses the page illegally.

#### 6. Access to Page for Person Who Wins Prize and Page for Person Who Fails to Win Prize (S256 and S258)

As soon as the access keyword is entered by the participant (S252), the server B determines the winner and losers of a prize, and the server B allows the participant to access the respective pages (S254). Accordingly, a winning participant may access to the page for the winners of the prize (S256), and a losing participant may access to the page for the losers (S258). A winning participant is requested to enter personal information such as his or her name and address in the page for the winners of the prize (S256), and the winning participant can receive the prize

(S256). In the case where plural kinds of prizes such as prize A and prize B exist, the foregoing page for the winner of the prize is prepared for each kind of the prize.

On the other hand, the losing participant may access the  
5 page for the losers (S258), and, by entering information such as his or her name and address, that person can also participate in another prize competition seeking double chance (S258). By providing the additional prize competition in which only the losing participant can participate, an incentive for offering of  
10 information is also given to the person who failed to win the prize. For example, this double chance uses the same system as that of a prize competition on the general Internet, and winners of the double chance are chosen among the participants 116 after a certain period of time, and they are informed of winning in the  
15 double chance by an electronic mail and the like.

#### 7. Storage of Database (S260)

Since the participants 116 have to enter personal information in both pages for the winners and the losers, data  
20 relating to the winner and the loser is stored in the database on the host 122 side (S260). Such prize competition is repeatedly performed, and by analyzing data obtained by the prize competitions, an accuracy of the database increases and the database can be effectively utilized for marketing activities.

#### 25 **Embodiment 2**

Another embodiment of the lottery system of the present invention is shown in a flowchart of Fig. 5.

1. Transmission of Electronic Mail with ID (S302)
2. Receipt of Electronic Mail with ID (S304) and Reply to ID  
30 (S306)
3. Limitation to Participant 116 (S308) and Determination of Winner of Prize (S310)

Since the above described process steps in Fig. 5 (S302, S304, S306, S308, S310, S312, S316, S318 and S320) are similar to those performed in the process steps S202, S204, S206, S208, S210, S212, S216, S218 and S220 shown in Fig. 4 respectively, detailed descriptions for this process are omitted. Also in this embodiment, a plurality of prizes can be prepared.

#### 4. Transmission of Electronic Mail for Announcing Result of Lottery (S318)

In the processing in step S310 of Fig. 5, which is similar to that in step S210 of Fig. 4, the result of the lottery by the participant 116 determined is instantaneously transmitted to the participant 116 by an electronic mail (S318). In this electronic mail, the result of the lottery, URLs for lottery result home page or web site 340 which include pages individually prepared depending on the result of the lottery and an access keyword are described (S312, S316). This access keyword is set for each result of the lottery, and, by entering this access keyword in each page, the participant 116 can access the page for the winner of the prize and the page for the loser of the prize, respectively. In the case where a plurality of prizes such as prize A and prize B exist, URLs of the pages for the corresponding prizes are written in the electronic mail (S318), and the individual pages may be accessed. The process in Fig. 5 is different from those of Fig. 4 in that the result of winning the prize is also reported to the participant 116 by the electronic mail for announcing the result of the lottery (S318).

#### 5. Receipt of Electronic Mail for Announcing Result of Lottery (S320)

The participant 116 receives the electronic mail for announcing the result of the lottery (S320) immediately after

5 sending back the electronic mail to the ID (S306). After the  
participant 116 confirms the result of the lottery, the  
participant 116 may accesses the URLs of the pages for the winners  
of the prize and for the losers of the prize, which are described  
in the electronic mail for announcing the result of the lottery  
(S318). Moreover, by writing the access keyword and the mail  
address onto the pages, where such addresses are included in the  
electronic mail for announcing the result of the lottery, the  
participant 116 can access the pages either for the winners or the  
10 losers.

#### 6. Access to Page for Winner of Prize and Page for Loser of Prize (S322, S324)

15 After entering the access keyword and the mail address, the  
winning participant can access the page for the winners, and the  
losing participant can access the page for the losers (S322 and  
S324 respectively). The winning participant may enter personal  
information such as his or her name and address onto the page for  
the winners (S326), whereby the winning participant can receive  
20 the prize. In the case where a plurality of prizes such as prize  
A and prize B exist, the winning participant may access one of the  
pages for the respective prize, and the participant may receive  
the respective prize.

25 On the other hand, the losing participant may access the  
page for the losers (S324), and enter personal information such as  
his or her name and address (S328), whereby the losing participant  
can participate in another prize competition for a second chance.  
By providing the prize competition in which only the losing  
participant can participate, incentive for offering of personal  
30 information is likewise given to the losing participant. For  
example, this second chance uses the same system as that of a  
prize competition on the general Internet, and winners of the

second chance are chosen among the participants 116 after a certain period of time, and they are informed of winning in the double chance by an electronic mail and the like.

## 5 7. Storage of Data (S330)

Since the participant 116 has to enter his or her personal information in both of the pages for the winners and the losers, data relating to the winner and the loser is stored in the database on the host side. Such prize competition is repeatedly  
10 performed, and by analyzing data obtained by the prize competitions, an accuracy of the database increases and the database can be effectively utilized for marketing activities.

### **Embodiment 3**

In the above-described embodiment, the application for the  
15 lottery is performed by the electronic mail. In the embodiment, the application for the lottery is performed in a way that the participant 116 accesses the page of the URL for application. This lottery system of this embodiment will be described with reference to the flowchart shown in Fig. 6 in detail. Here, a  
20 unique URL and an access keyword are used as the access key for distinguishing the participant 116.

## 1. Sending of Electronic Mail with URL (S402)

In the lottery system of this embodiment, the process starts  
25 with sending the electronic mail with the URL to a participant 116 (not shown in Fig. 6) by a host 122 (not shown in Fig. 6) of the prize competition using the electronic mail (S402). With reference to this URL, there are two ways to assign such URL. The first way is to allocate this URL to the individual participant  
30 (hereinafter referred to as pattern 1). The second way is to have single fixed URL (hereinafter referred to as pattern 2).

Pattern 1

In the electronic mail sent from the host 122 to the participant, a unique URL which is allocated for each electronic address of the participant, that is, an access key for application, is written.

5    Pattern 2

The URL (fixed) of the prize competition page and the unique access keyword allocated for each electronic address are described in the electronic mail.

10    The flowchart of Fig. 6 shows the processing when both of the patterns are simultaneously executed.

2. Receipt of Electronic Mail with URL and Access to URL (S404)

15    The participant receives the electronic mail with the URL sent from the host of the prize competition (S404). The participant accesses this URL, whereby the participant can first apply for the prize competition (hereinafter the participant who applied for the prize competition is called a participant).

Pattern 1

20    The participant 116 accesses the unique URL written in the electronic mail received by the participant (S408), whereby the individual recognition is performed and the participant can apply for the lottery. Moreover, by entering onto the page the mail address of the participant used in the electronic mail with the URL sent from the host of the prize competition (S410), the  
25    individual recognition can be performed.

Pattern 2

30    When a participant access a specified URL (S418), the participant has to be individually recognized, so that it is possible to recognize the participant individually at least by entering a unique keyword (S420). Moreover, by entering the unique access keyword and the mail address of the participant used



in the electronic mail sent with the URL sent from the host 122,  
the participant 116 can also be discriminated.

### 3. Determination of Lottery Result (S412 and S422)

5 In both of the patterns 1 and 2, it is possible to  
individually recognize the participant based on the mail address  
and the access keyword which are entered onto the page. When the  
participant is confirmed to be a person who is eligible of the  
application for the prize competition, the result of the lottery  
10 is decided by a probability calculation using random numbers based  
on a probability of winning the prize, which has been set  
previously (S412 and S422). It is possible to set this  
probability freely, and it is possible to change the probability  
of winning the prize for each prize and each sweepstake.

15 Moreover, it is also possible to set the winner of the prize  
to plural ranks such as prize A and prize B, in addition to the  
winning the prize and the losing the prize. The participant 116  
can instantaneously know the result of the lottery on the page.

### 20 4. Access to Page for Winners and Access to Page for Losers (S414, S416, S424 and S426)

After the result of the lottery is turned out, the winning  
participant can access the page for the winners, and the losing  
participant can access the page for the losers. By entering  
25 personal information such as a name and an address in the page for  
the winner, the winning participant can receive the prize (S414  
and S424).

On the other hand, the losing participant may access the  
page for the losers, and enters personal information such as a  
30 name and an address, whereby the losing participant can also  
participate in another prize competition called for a second  
chance (S416 and S426). By providing the prize competition in

which only the losing participant can participate, an incentive for offering of information is given to also the person who loses the prize. For example, this second chance uses the same system as that of a prize competition on the general Internet, and  
5 winners of the second chance are chosen among the participants  
116 after a certain period of time, and they are informed of winning in the double chance by an electronic mail and the like.

#### 5. Storage of Database (S428)

10 Since the participants 116 have to enter personal information in both of pages for the winners and the losers, data relating to the winner and the loser are stored in the database on the host side (S428). Such prize competition is repeatedly performed, and by analyzing data obtained by the prize  
15 competitions, an accuracy of the database increases and the database can be effectively utilized for marketing activities.

In the foregoing flowchart of Fig. 6, the process of the patterns 1 and 2 are simultaneously executed. However, either the processing of the pattern 1 or the processing of the pattern 2 may  
20 be executed.

#### Another Embodiment

In the foregoing lottery system, a selective quiz can be added to the mail optionally. In this case, access keys different depending on answers of the quiz are notified, electronic mails  
25 are sent back to different addresses depending on answers, and different URLs are accessed depending on the answers. Then, setting is conducted such that only the participants are objective of the lottery, who send back to the ID for a right answer at the time of the decision of the result of the lottery, and who access  
30 the page for the right answer.

A lottery system may be adopted, in which the drawing in the lottery is not performed at the time of the entries of the

participants 116 like the foregoing lottery system, but the result of the lottery for each participant is previously decided, thus sending out the electronic mail with the access key to the participants 116. A flowchart of the process in such lottery system can be the same as those of Figs. 4 to 6, except that the drawing in the lottery is not performed at the time of the application, and the result of the lottery previously determined for the participant is taken out after discriminating the participant.

In the foregoing Figs. 4 and 5, the systems which send out the electronic mail for informing the lottery show the different servers, and the systems which publish the web site to be accessed after the drawing of the lottery show the different servers. However, these systems may have the same server.

Furthermore, when the application is made after termination of the application period, the lottery system of the present invention may be constituted such that an error mail and the like are sent back to the participant.

#### Concerning Application of Lottery System of Present Invention

The lottery system of the present invention can be applied to all of services via an electronic mail, as long as an electronic mail address of the other person is known. This is because by sensing out an electronic mail with an access key the person who receives as the other person this electronic mail can be recognized as the participant 116 for the prize competition, as long as an electronic mail address of the participant 116 is known. Concrete application examples of the lottery system of the present invention are as follows.

- Mail magazines;
- Mail news;

- Greeting cards such as seasonal, Christmas or new year greeting cards, summer greeting cards, birthday cards, wedding cards, and new born baby celebrating cards;

- Direct mails;

5       - Confirmation of order of online shopping and shipping information mails; and

- Incentive programs for purchasing goods (bonus or free gifts added to purchased goods).

10       The lottery system of the present invention is capable of achieving the following advantageous effects by utilizing the lottery system in various kinds of services via the foregoing electronic mail.

- Increase of Ratio at Which Electronic Mail Is Read Out

15       Various kinds of information transmitted over the Internet nowadays, and a matter that customers are made to read an electronic mail distributed to them without fail has been a serious problem. The lottery system of the present invention exhibits an effect that an incentive to review the contents of the electronic mail distributed to the customers is increased by  
20       adding a unique access key capable of applying for the lottery, not simply containing information at the time of issuing the information by the electronic mail such as mail news which is distributed to customers. Although a large amount of information concerning a prize competition is published in electronic mail  
25       news and the like, the access key is personally allocated to the participant himself or herself in the lottery, and the lottery system of the present invention has a merit or advantage that the participant can know the result of the lottery instantaneously. Accordingly, the ratio at which the customer reads out the  
30       electronic mail is significantly increased compared to the conventional mere prize competition information.

- Increase in Number of Accesses to Web sites

Accompanied with an increase of a ratio at which the electronic mail is read out, there is an effect to increase the number of accesses to the web site 124. The participant 116 to the prize competition is finally required to access the URL of the host 122. For this reason, by utilizing the lottery system of the present invention, the host 122 can significantly increase the number of accesses to his or her own web site 124.

- Storage of More Accurate Data

As one major object of the prize competition on the Internet, data collection of information concerning the customers is enumerated. Since the limitation of the persons who apply in the prize competition adopting the foregoing systems was difficult, it was difficult on the host 122 side to operate a universe of data, which is for collection and analysis. On the contrary, in the lottery system of the present invention, since the participant 116 can be determined on the host 122 side and it is impossible to apply for the prize competition without holding a unique access key, an illegal participant 116 can be excluded. Accordingly, the customer data obtained from the lottery system of the present invention has a specified universe, and is more accurate than data obtained in a prize competition on the conventional Internet. By utilizing this data, a marketing activity to be performed afterward becomes accurate and effective.

- Obtaining of Time for Which Reader Reads Mail

Since the access key in the lottery system of the present invention is allocated to each participant 116, it is possible to grasp who reads the electronic mail as well as when the electronic mail is read, by grasping the time when the mail is sent back and the access time to the URL. By utilizing this data, it can be estimated to some extent at what period of time the customers access the Internet. The estimation of the period of time can be

utilized for determination of timings of transmitting information to the customer, which is to be performed afterward.

- Incentive for Purchasing by Customer

5 A service that issues an access key of the lottery system of the present invention to a customer who purchased a specified article in an online shop is provided, whereby an incentive to purchase the article by the customer can be increased.

10 A program relating to the present invention is read out from a storage medium stored therein using the system and the program read out is executed, whereby the constitution of the present invention can be incorporated into a computer system. This storage medium includes a floppy disk, a CD-ROM, a magnetic tape, a ROM cassette and the like.

15 Moreover, the lottery system of the present invention can be embodied also in a multi-system composed of a plurality of systems, as well as in a single system.

20 The foregoing lottery system of the present invention is a system for a public lottery (speed lottery), a prize competition and the like, which are performed on Web, and in the lottery system the access key (electronic mail address (ID), access keyword and URL) unique for an electronic mail is issued, thus deciding the result of the lottery using the access key. By this lottery system, unlike a prize competition on the conventional Internet web site 124, the result of the lottery is  
25 instantaneously known without passage of a certain period of time, and the host 122 can limit the participant 116 for the prize competition previously.

30 Since the result of the lottery is instantaneously decided, the participant can participate in the prize competition more easily, and it is possible to greatly increase the ratio of the reply to the notification of the prize competition. One of the objects of the conventional prize competition commonly performed

on the web site 124 is to construct the database. However, since the lottery system of the present invention is capable of limiting the persons who want to participate in the prize competition, an accuracy of the information of the database obtained from the  
5 lottery system of the present invention increases significantly compared to the conventional prize competition.

Although the preferred embodiments of the present invention have been described in detail, it should be understood that various changes, substitutions and alternations can be made  
10 therein without departing from spirit and scope of the inventions as defined by the appended claims.

The contents of Japanese patent application No. 11-247300 filed September 1, 1999 including specification, drawings and claims are incorporated herein by reference in entirety.

What is claimed is:

1. A lottery system utilizing an electronic mail,  
comprising:

    sending an electronic mail in which a unique access key is  
affixed to one of a plurality of specified participants;

    selecting an application for a lottery on the basis of said  
unique access key from each of said participants, and

    notifying said plurality of participants of a result of said  
lottery.

2. The lottery system according to claim 1,

    wherein said result of said lottery is obtained by a  
drawing performed when said participant applies for said lottery.

3. The lottery system according to claim 1,

    wherein the result of said lottery is presented before said  
electronic mail is sent.

4. The lottery system according to claim 1,

    wherein a discrimination of the application for said  
lottery is performed by use of said access key and a destination  
mail address of said electronic mail.

5. The lottery system according to claim 1,

    wherein said access key is an address of an electronic mail  
sent back by said participant.



6. The lottery system according to claim 5,  
wherein the result of said lottery is performed by  
notifying a URL of a page informing the result and an access  
keyword, using an electronic mail.

6. The lottery system according to claim 5,  
notifying said participant of a URL of a page via  
electronic mail, where said page holds the result of said lottery  
as well as an access keyword.

7. The lottery system according to claim 6,  
wherein the URL of the page informing said result is  
separated into one for a winner of a prize and the other for a  
loser in winning the prize.

8. The lottery system according to claim 6,  
wherein by entering said access keyword and an mail address  
to which said access keyword is sent into the page informing said  
result, a page for the winner of the prize and a page of the loser  
in winning the prize can be accessed.

9. The lottery system according to claim 1,  
wherein said access key is a keyword either in a URL of a  
page for application or in a specified URL; and  
when said participant accesses said URL, said user can  
access a URL informing the result of the lottery.

10. The lottery system according to claim 9,  
wherein a destination mail address of said electronic mail,  
which is entered in said URL, is used for discrimination.

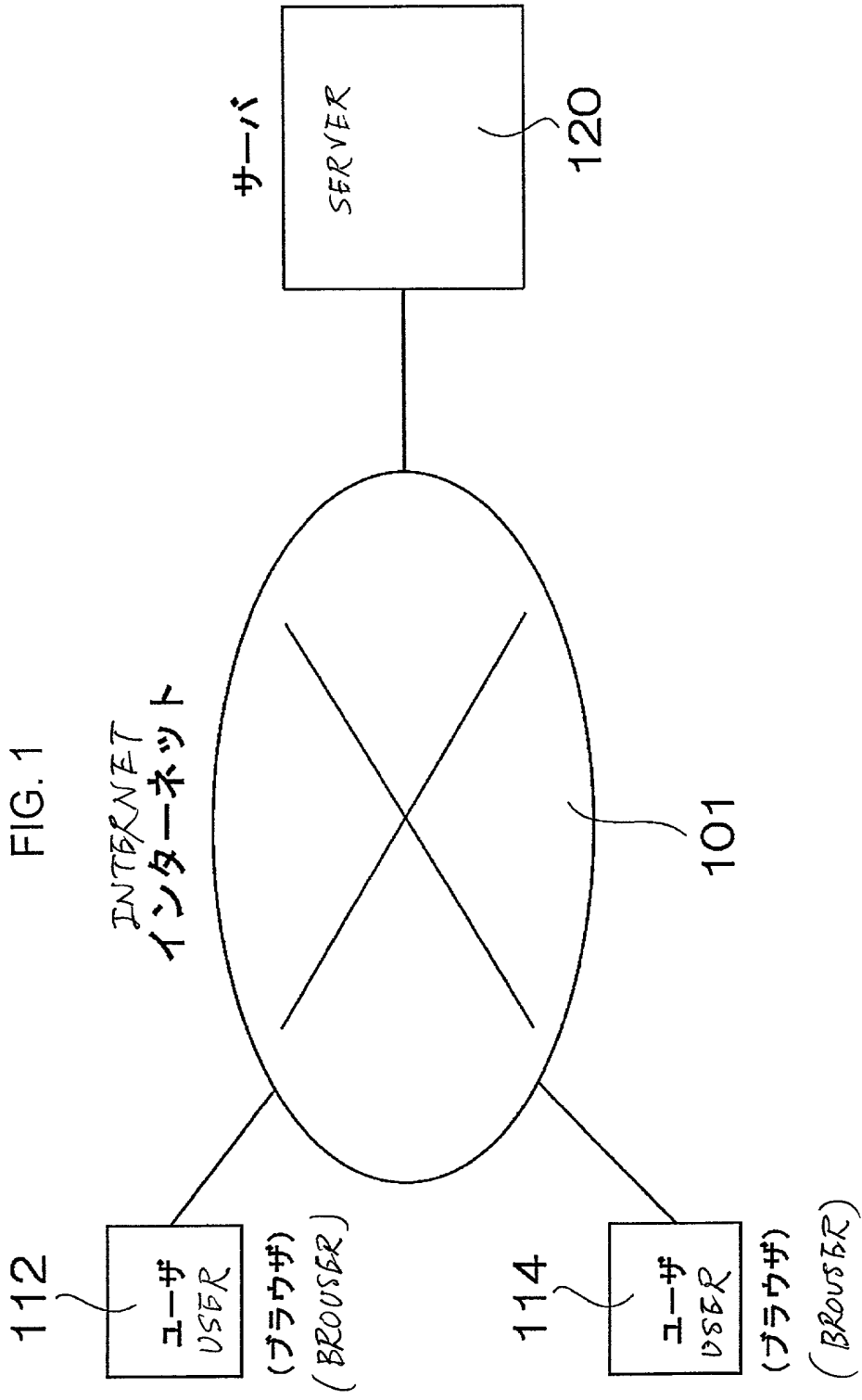
11. The lottery system according to claim 1,

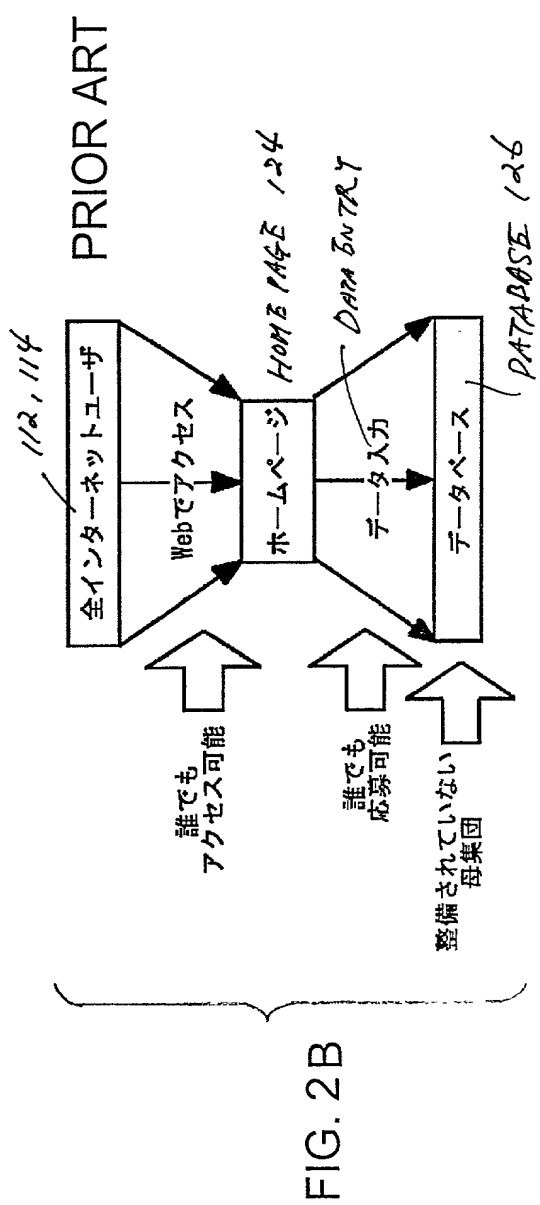
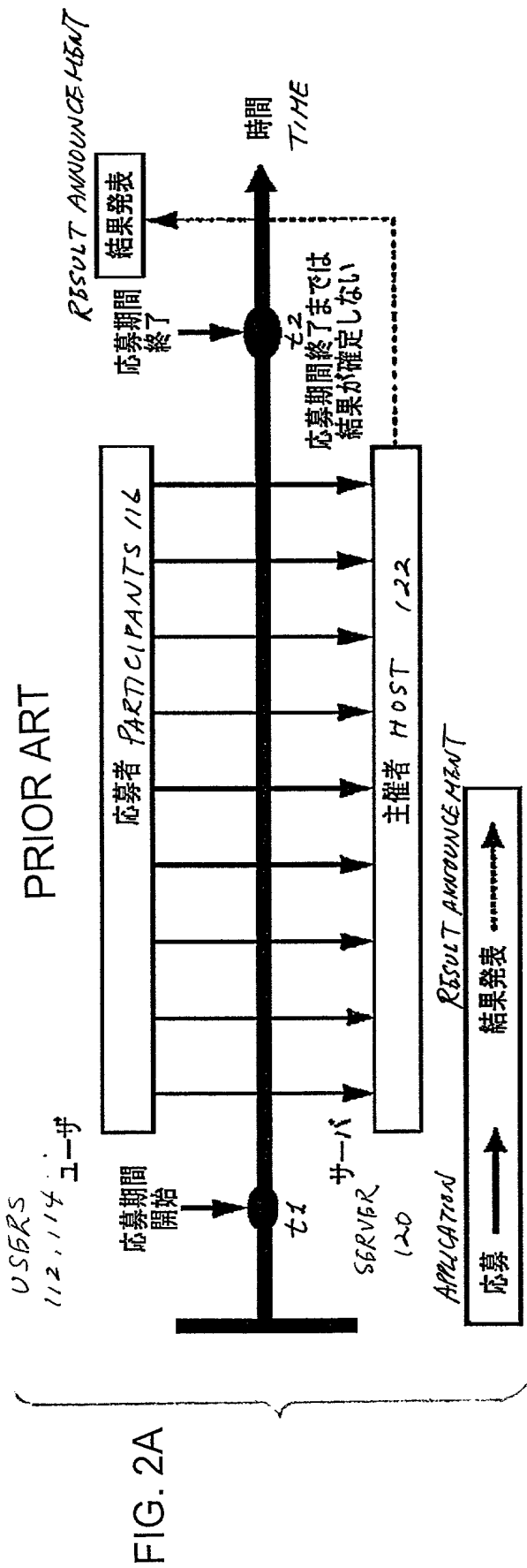
wherein data of said participant who applied for the lottery is collected and stored.

12. A lottery system according to claim 1, wherein said lottery system is entirely incorporated into a computer system.

## Abstract of the Disclosure

A lottery system utilizing the Internet, which enables a participant for a lottery to know a result of a lottery and a host to previously limit objective persons of a prize competition, is disclosed. When the user applies for the lottery, the user is informed of a result of a drawing immediately after the application of the user. An interactive lottery system which enables the user to know the result of the drawing can be constructed. Moreover, a host of the lottery sends an access key such as an ID, which is for applying for the lottery, to a customer and a user who is a potential customer, using an electronic mail, thus limiting participants for the lottery.





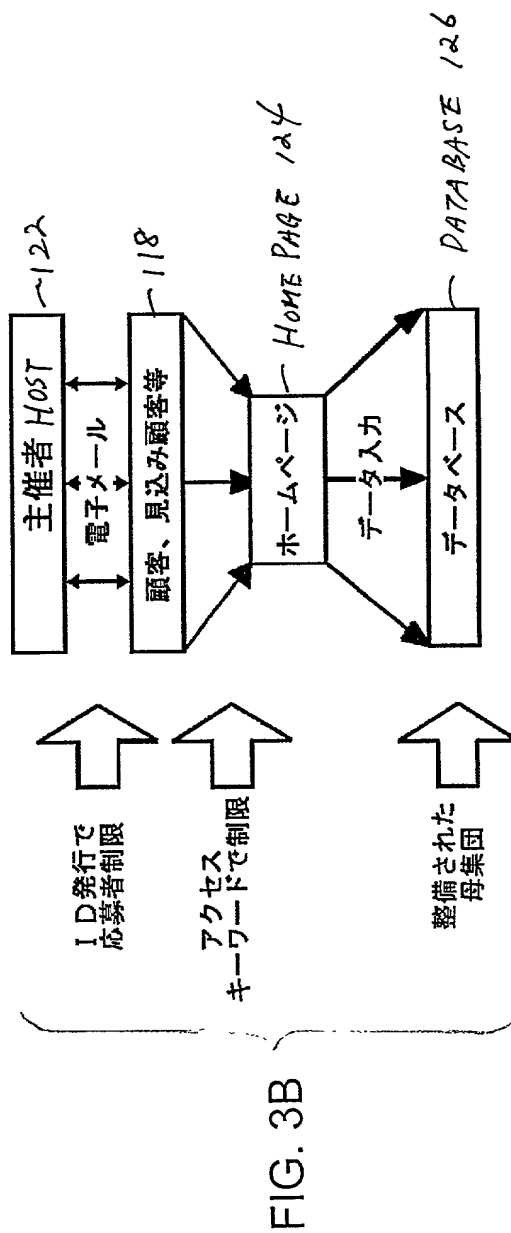
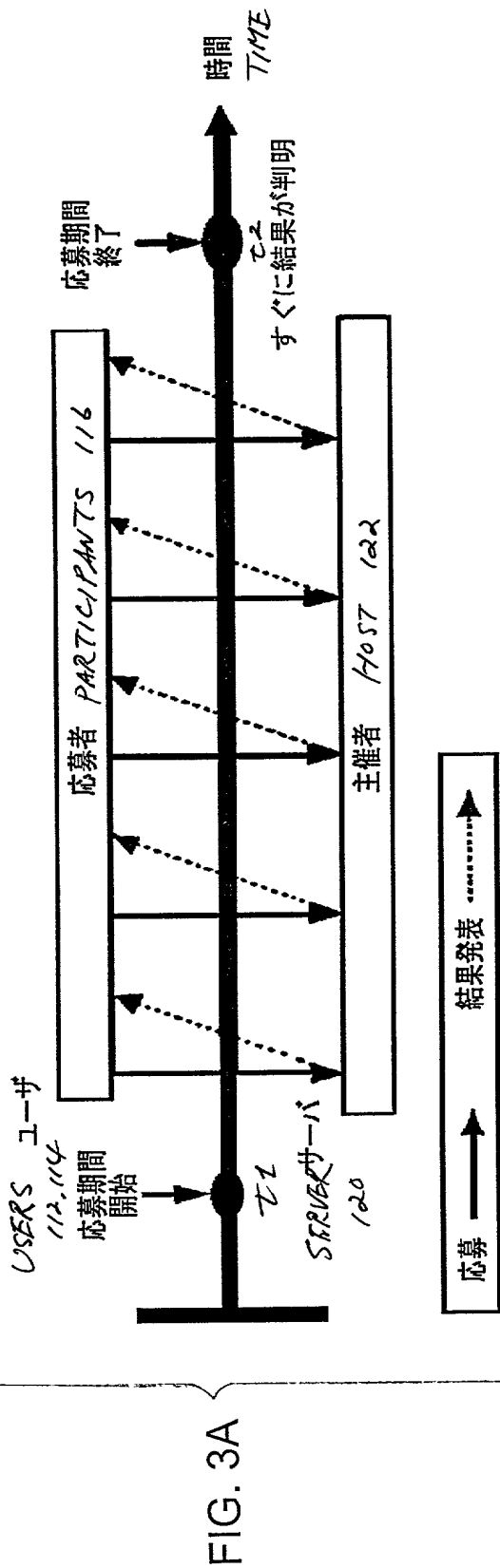


FIG. 4

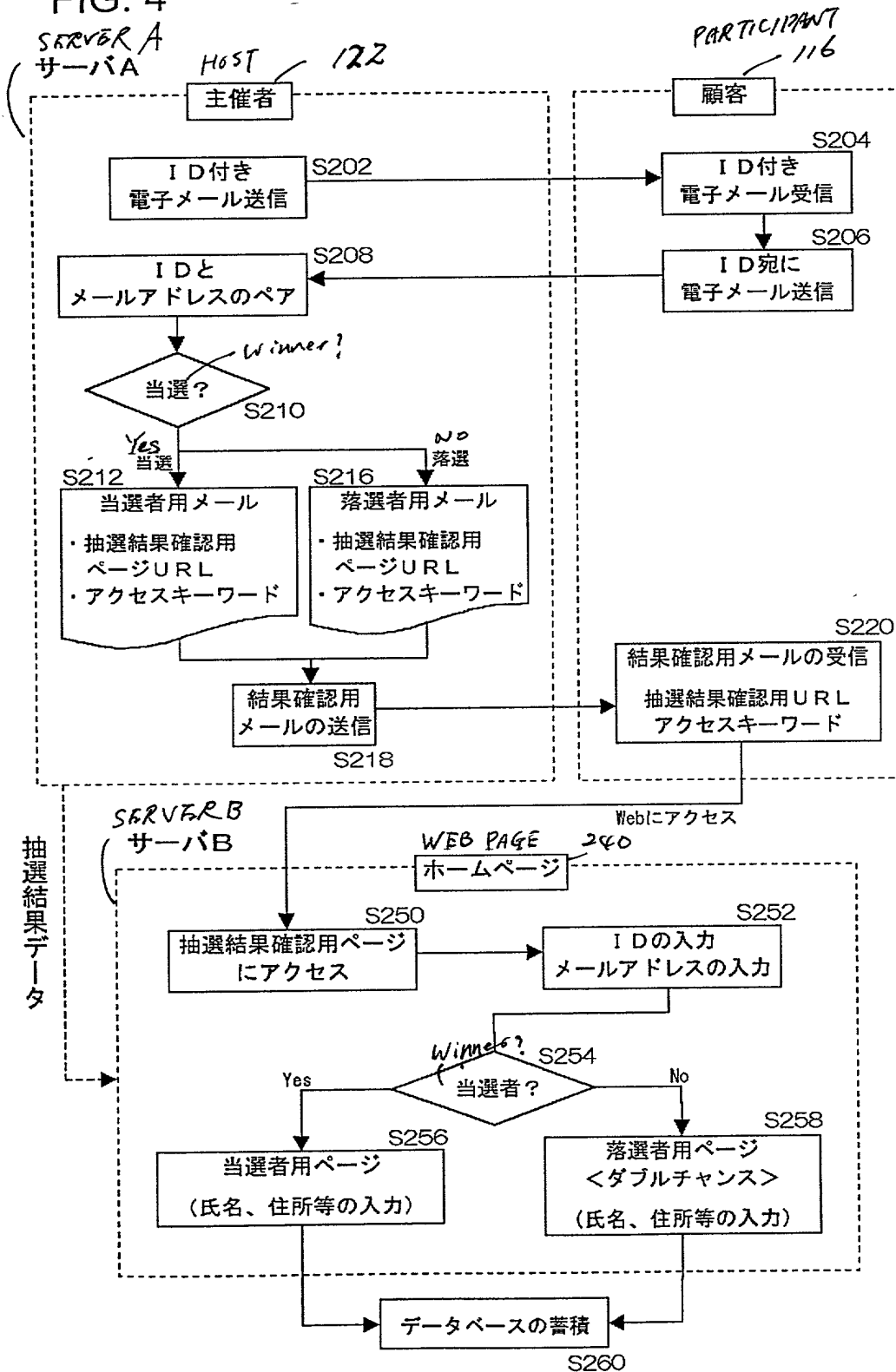


FIG. 5

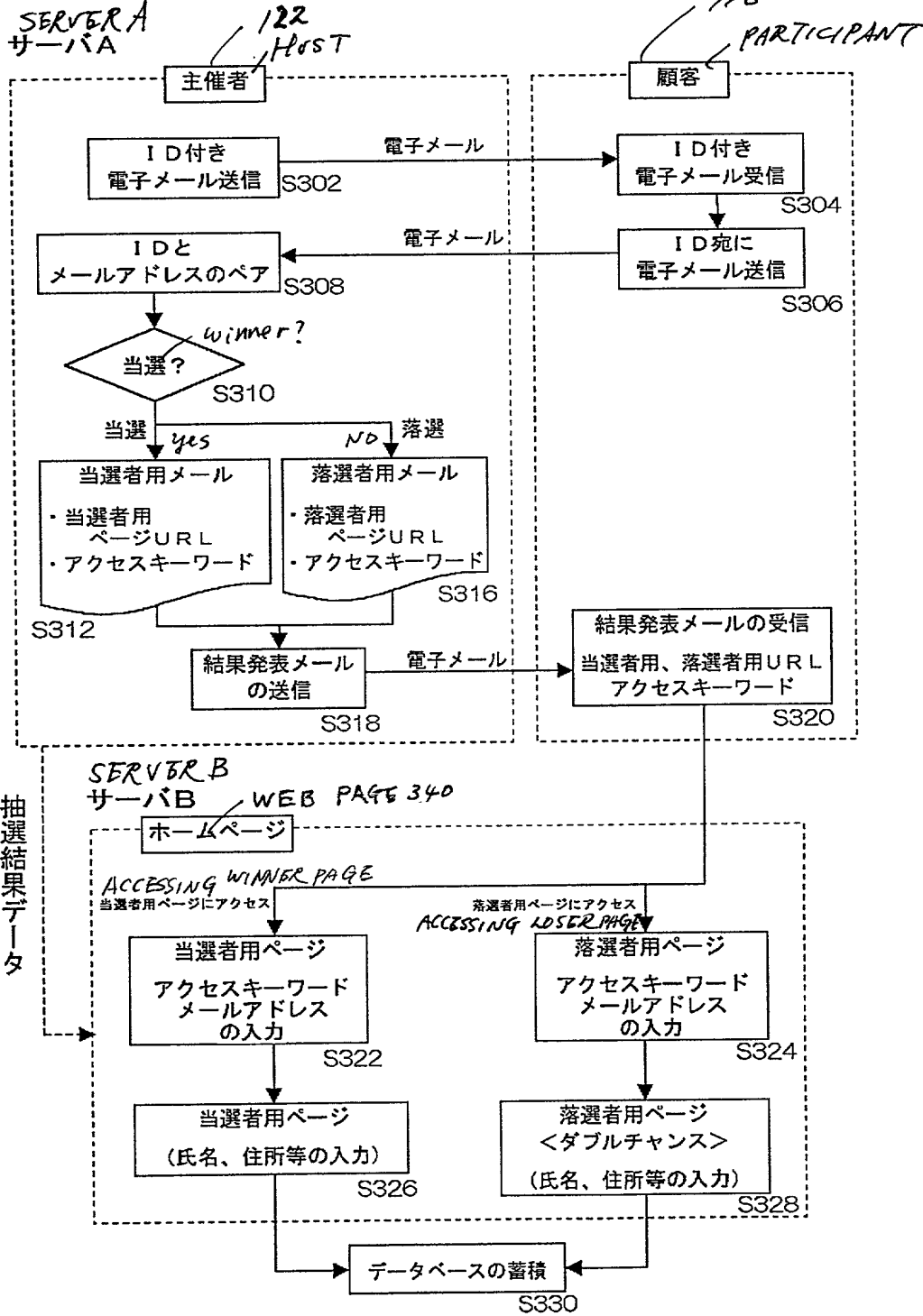
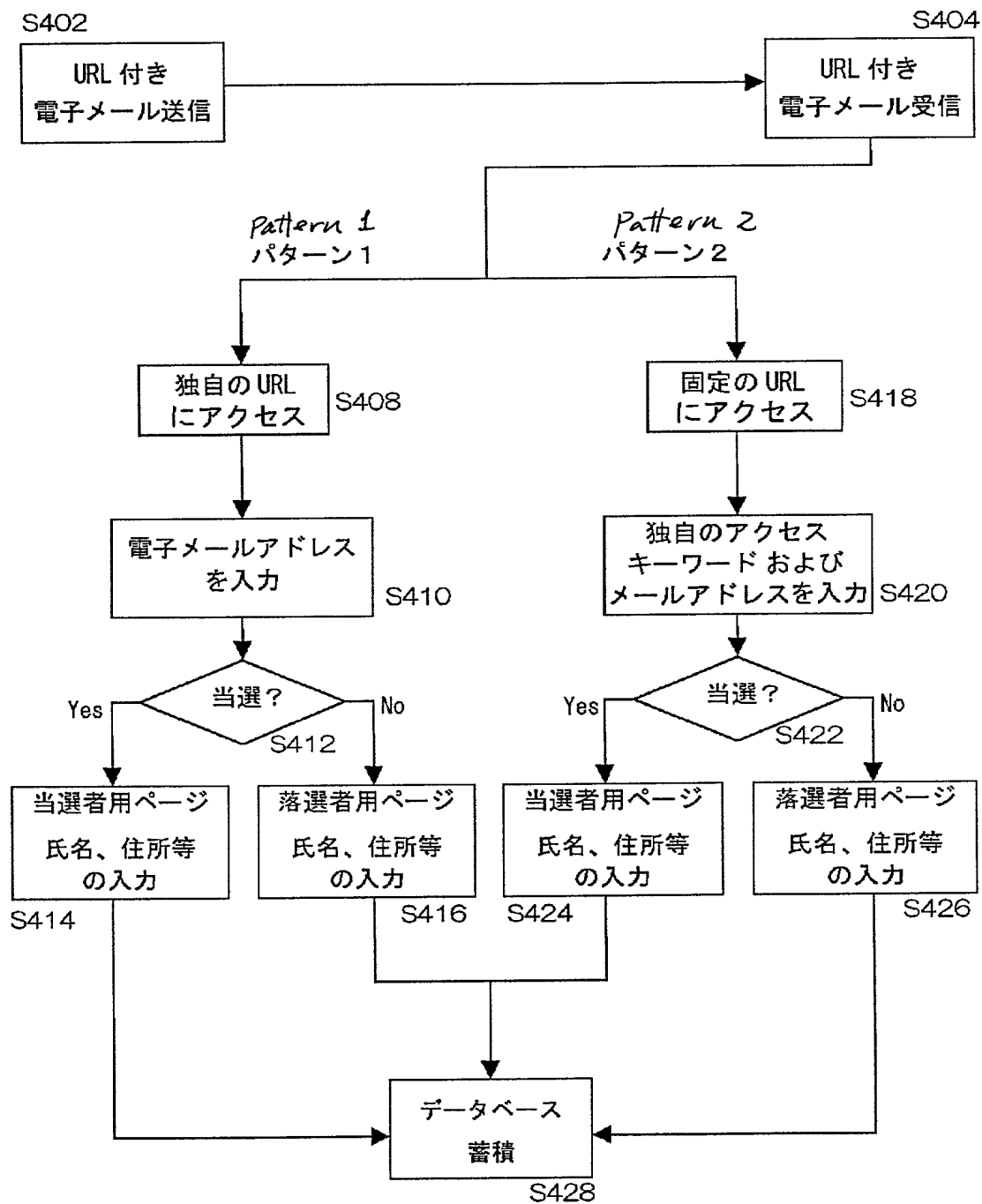




FIG. 6



Please type a plus sign in this box.

+

Approved for use through 6/30/98. OMB 0651-0032  
Patent and Trademark Office; US DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**DECLARATION FOR  
UTILITY OR DESIGN  
PATENT APPLICATION****Attorney Docket No.**

KAK-001

**First Named Inventor**

MIKITANI et al.

**COMPLETE IF KNOWN**

Application No.

To be assigned

Filing Date

Concurrently herewith

Group Art Unit

Examiner Name

☒ Declaration  
submitted with or  
initial filing☐ Declaration  
submitted after  
initial filing

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (only if one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**LOTTERY SYSTEM UTILIZING ELECTRONIC MAIL***(Title of the Invention)*

the specification of which

☒ is attached hereto  
or☐ was filed on , as United States Application Number Number: .

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code §119 (a)-(d) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YY)	Priority Claimed	Certified Copy Attached	
11-247300	Japan	September/1/1999	yes	YES	NO
				<input type="checkbox"/>	<input checked="" type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

Application Number (s)	Filing Date (MM/DD/YY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

Please type a plus sign in this box:

+

PTO/SB/01 (3-97)

Approved for use through 6/30/98. OMB 0651-0032

Patent and Trademark Office; US DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**DECLARATION - Utility Or Design Patent Application**

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the matter provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application

U.S. Parent Application Number	PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: ☒ Customer Number 23353

Or

☐ Registered practitioner(s) name/registration number listed below

Place Customer  
Number Bar Code  
Label Here

Name	Registration No.	Name	Registration No.
John E. McGarry	22,360	Joel E. Bair	33,356
H. Lawrence Smith	24,900	Richard D. Grauer	22,388
Ralph T. Rader	28,772	Michael D. Fishman	31,951
Joseph V. Coppola, Sr.	33,373	Mark A. Davis	37,118
Michael B. Stewart	36,018	Stefan V. Chmielewski	39,914
Alexander D. Rabinovich	37,425	Shumel Livnat	33,949
Kevin D. Rutherford	40,412	Kristin L. Murphy	41,212
Glenn E. Forbis	40,610	Monica Millner	42,894
Ronald P. Kananen	24,104	David K. Benson	42,314
Matthew J. Russo	41,282	Christopher M. Tanner	41,518
G. Thomas Williams	42,228	Robert S. Green	41,800

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto

Direct all correspondence to ☒ Customer Number **23353** or ☐ Correspondence Address below

Name	Ronald P. Kananen, Esq., RADER, FISHMAN, GRAUER PLLC		
Address	1233 20 <sup>th</sup> Street, N.W., Suite 501		
City, State, Zip	Washington, D.C. 20036		
Country	US	Telephone	202-955-3750
		Fax	202-955-3751

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>Name of Sole or First Inventor</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor.	
Given Name (first and middle [if any])		Family Name or Surname	
Hiroshi		MIKITANI	
Inventor's Signature			Dated
Residence: City	Tokyo	State	
		Country	Japan
Citizenship	Japan		
Post Office Address	c/o Rakuten Inc., 2-6-20, Nakameguro, Meguro-ku		
City	Tokyo	State	
		Zip	
Country	Japan		

☒ Additional inventors are being named on the 1 supplemental additional inventor(s) sheet(s) PTO/SB/02A attached hereto.

Please type a plus sign in this box:

+

PTO/SB/02A (3-97)

Approved for use through 6/30/98. OMB 0651-0032

Patent and Trademark Office; US DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Name of Inventor</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Shinnosuke				HONJO			
Inventor's Signature						Dated	
Residence: City	Tokyo	State		Country	Japan	Citizenship	Japan
Post Office Address		c/o Rakuten, Inc., 2-6-20, Nakameguro, Meguro-ku					
City	Tokyo	State		Zip		Country	Japan

<b>Name of Inventor</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Tomomi				HATANOU			
Inventor's Signature						Dated	
Residence: City	Tokyo	State		Country	Japan	Citizenship	Japan
Post Office Address		c/o Rakuten Inc., 2-6-20, Nakameguro, Meguro-ku					
City	Tokyo	State		Zip		Country	Japan